

Application Serial No. 09/877,768  
Amendment dated September 29, 2004  
Reply to final office action of June 29, 2004

Docket No. 1232-4722

**Amendment to the Claims:**

Claims (25, 28, 30-37, 51-58), (27, 29, 67, 78, 79), (38, 41, 43-46, 64, 80, 81), (39, 47-50, 82-84), (40, 42, 85-87) and (88, 89, 90) are pending in this application. Claims 25, 27, 38, 39, 40 and 88 are independent.

The following claim listing replaces all prior versions and listings of claims in this application.

**Claim Listing:**

1-24 (Cancelled):

25 (Previously Presented): An illumination system comprising:

a secondary light source forming member for forming a plurality of secondary light sources from a light source,

wherein an illumination surface is illuminated with a plurality of light beams from said plurality of secondary light sources, and projection magnifications of a part or all of said plurality of light beams to said illuminated surface are changed, thereby varying an illumination distribution on said illuminated surface, and

wherein said distribution is varied by switching the relationship of the number of overlapping light beams in a central portion of said illuminated surface and the number of overlapping light beams in a peripheral portion of said illuminated surface between different and the same.

26 (Cancelled):

27 (Previously Presented): An illumination system comprising:

a secondary light source forming member for forming a plurality of secondary

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light sources from light from a light source,

, wherein an illumination surface is illuminated with a plurality of light beams from said plurality of secondary light sources, and projection magnifications of a part or all of said plurality of light beams to said illuminated surface are changed, thereby varying an illumination distribution on said illuminated surface, and

wherein the number of overlapping light beams in a central portion of said illuminated surface is structured to be larger than the number of overlapping light beams in a peripheral portion of said illuminated surface, and projection magnifications of said plurality of light beams to said illuminated surface are changed, thereby varying said distribution in an effective region of said illuminated surface.

28 (Original): An illumination system according to claim 25, comprising:

at least one lens array as said secondary light source forming member; and  
a light condensing optical element, wherein said distribution is varied by moving  
said light condensing optical element in a direction of an optical axis.

29 (Original): An illumination system according to claim 27, comprising: at least one lens array as said secondary light source forming member; and a light condensing optical element, wherein said distribution is varied by moving said light condensing optical element in a direction of an optical axis.

30 (Original): An illumination system according to claim 25, comprising:

at least one lens array as said secondary light source forming member; and  
a light condensing optical element, wherein said distribution is varied by moving

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at least a part of said at least one lens array.

31 (Original): An illumination system according to claim 30, wherein said distribution is varied by moving at least a part of said at least one lens array in a direction of an optical axis.

32 (Original): An illumination system according to claim 30, wherein said distribution is varied by moving at least a part of said at least one lens array in a direction perpendicular to an optical axis.

33 (Original): An illumination system according to claim 30, wherein said distribution is varied by rotating at least a part of said at least one lens array.

34 (Previously Presented): An illumination system according to claim 25, comprising:  
at least one lens array as said secondary light source forming member; and  
a light condensing optical element, wherein said distribution is varied by moving at least a part of said at least one lens array.

35 (Original): An illumination system according to claim 34, wherein said distribution is varied by moving at least a part of said at least one lens array in a direction of an optical axis.

36 (Original): An illumination system according to claim 34, wherein said distribution is varied by moving at least a part of said at least one lens array in a direction perpendicular to an optical axis.

37 (Original): An illumination system according to claim 34, wherein said distribution is varied by rotating at least a part of said at least one lens array.

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38 (Currently Amended): An illumination system comprising:

a secondary light source forming member for forming a plurality of secondary light sources by using light from a light source,

at least one lens array as said secondary light source forming member; and  
a light condensing optical element.

wherein an illuminated surface is illuminated with a plurality of light beams from said plurality of secondary light sources, and projection magnifications of a part or all of said plurality of light beams to said illuminated surface are changed, thereby varying an illumination distribution in an effective region of said illuminated surface, and

wherein said distribution is varied by moving and rotating at least a part of said at least one lens array.

39 (Previously Presented): An illumination system comprising:

a secondary light source forming member for forming a plurality of secondary light sources by using light from a light source,

wherein an illuminated surface is illuminated with a plurality of light beams from said plurality of secondary light sources, and projection magnifications of a part or all of said plurality of light beams to said illuminated surface are changed, thereby varying an illumination distribution in an effective region of said illuminated surface, and

wherein said distribution is varied by switching the relationship of the number of overlapping light beams in a central portion of said illuminated surface and the number of overlapping light beams in a peripheral portion of said illuminated surface between different and

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the same.

40 (Previously Presented): An illumination system comprising:

a secondary light source forming member for forming a plurality of secondary light sources by using light from a light source,

wherein an illuminated surface is illuminated with a plurality of light beams from said plurality of secondary light sources, and projection magnifications of a part or all of said plurality of light beams to said illuminated surface are changed, thereby varying an illumination distribution in an effective region of said illuminated surface, and

wherein the number of overlapping light beams in a central portion of said illuminated surface is structured to be larger than the number of overlapping light beams in a peripheral portion of said illuminated surface, and projection magnifications of said plurality of light beams to said illuminated surface are changed, thereby varying said distribution.

41 (Original): An illumination system according to claim 38, comprising:

at least one lens array as said secondary light source forming member; and  
a light condensing optical element, wherein said distribution is varied by moving said light condensing optical element in a direction of an optical axis.

42 (Original): An illumination system according to claim 40, comprising:

at least one lens array as said secondary light source forming member; and  
a light condensing optical element, wherein said distribution is varied by moving said light condensing optical element in a direction of an optical axis.

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43 (Cancelled):

44 (Original): An illumination system according to claim 43, wherein said distribution is varied by moving at least a part of said at least one lens array in a direction of an optical axis.

45 (Original): An illumination system according to claim 43, wherein said distribution is varied by moving at least a part of said at least one lens array in a direction perpendicular to an optical axis.

46 (Cancelled):

47 (Original): An illumination system according to claim 39, comprising:  
at least one lens array as said secondary light source forming member; and  
a light condensing optical element, wherein said distribution is varied by moving at least a part of said at least one lens array.

48 (Original): An illumination system according to claim 47, wherein said distribution is varied by moving at least a part of said at least one lens array in a direction of an optical axis.

49 (Original): An illumination system according to claim 47, wherein said distribution is varied by moving at least a part of said at least one lens array in a direction perpendicular to an optical axis.

50 (Original): An illumination system according to claim 47, wherein said distribution is varied by rotating at least a part of said at least one lens array.

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51 (Previously Presented): An image display apparatus comprising:  
at least one image forming element; and  
an illumination system according to claim 25 for illuminating said at least one  
image forming element with light from a light source.

52 (Original): An apparatus according to claim 51, further comprising:

a projection optical system for projecting an image formed by said image forming  
element on a projection surface, wherein said apparatus further comprises a plurality of image  
forming elements and said projection optical system overlappingly projects on said projection  
surface images formed by said plurality of image forming elements.

53 (Previously Presented): An apparatus according to claim 51, wherein said apparatus  
comprises a plurality of image forming elements at least for red, green, and blue, respectively  
and said apparatus further comprises a plurality of dichroic mirrors for combining colors from  
said plurality of image forming elements.

54 (Previously Presented): An apparatus according to claim 51, wherein said apparatus  
comprises a plurality of image forming elements at least for red, green, and blue, respectively  
and said apparatus further comprises a plurality of dichroic prisms for combining colors from  
said plurality of image forming elements.

55 (Previously Presented): An illumination system according to claim 25,  
wherein an image recording apparatus for supplying an image signal to said  
apparatus.

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56 (Previously Presented): An illumination system according to claim 25,  
wherein a computer for supplying an image signal to said apparatus.

57 (Previously Presented): An apparatus according to claim 51, further comprising a projection optical system for projecting an image formed by said image forming element on a projection surface, wherein said apparatus has a single image forming element and said projection optical system projects the image formed by said single image forming element on the projection surface.

58 (Original): An apparatus according to claim 51 further comprising a projection optical system for projecting an image formed by said image forming element on a projection surface, wherein said apparatus has a single image forming element and said projection optical system projects the image formed by said single image forming element on the projection surface.

59-63 (Cancelled):

64 (Previously Presented): An image apparatus comprising:  
at least one image forming element; and  
an illumination system according to claim 38 for illuminating said at least one image forming element with light from a light source.

65-66 (Cancelled):

67 (Previously Presented): An image display apparatus comprising:  
at least one image forming element; and

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an illumination system according to claim 27 for illuminating said at least one image forming element with light from a light source.

68-77 (Cancelled):

78 (Previously Presented): An image display apparatus accoring to claim 67, further comprising an image storing apparatus for supplying image signal to said image display apparatus.

79 (Previously Presented): An image display apparatus accoring to claim 67, further comprising a computer for supplying image signal to said image display apparatus.

80 (Previously Presented): An image apparatus accoring to claim 64, further comprising an image storing apparatus for supplying image signal to said image display apparatus.

81 (Previously Presented): An image apparatus accoring to claim 64, further comprising a computer for supplying image signal to said image display apparatus.

82 (Previously Presented): An image apparatus comprising:

at least one image forming element; and  
an illumination system according to claim 39 for illuminating said at least one image forming element with light from a light source.

83 (Previously Presented): An image display apparatus accoring to claim 82, further comprising an image storing apparatus for supplying image signal to said image display apparatus.

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84 (Previously Presented): An image display apparatus according to claim 82, further comprising a computer for supplying image signal to said image display apparatus.

85 (Previously Presented): An image apparatus comprising:

at least one image forming element; and

an illumination system according to claim 40 for illuminating said at least one image forming element with light from a light source.

86 (Previously Presented): An image display apparatus according to claim 85, further comprising an image storing apparatus for supplying image signal to said image display apparatus.

87 (Previously Presented): An image display apparatus according to claim 85, further comprising a computer for supplying image signal to said image display apparatus.

88 (Previously Presented): An image display apparatus comprising:

at least one image forming element for forming an image in an effective region;

and

a secondary light source forming member for forming a plurality of secondary light source with light from a light source,

wherein said at least one image forming element is illuminated by using a plurality of light beam from a light source, and projection magnifications of a part or all of said plurality of light beams to said at least one image forming element are changed, whereby, in a case that images formed by said at least one image forming element concentrate at a central part

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rather than a periopheral part of the effective region, an image display apparatus controls a brightness of the central part to be brighter than that of a periopheral part, or in a case that images formed by said at least one image forming element are disperesed at a central part and a periopheral part, an image display apparatus controls a brightness of the central part to be substantially caqual to that of a periopheral part of the effective region.

89 (Previously Presented): An image display apparatus accoring to claim 88, further comprising an image storing apparatus for supplying image signal to said image display apparatus.

90 (Previously Presented): An image display apparatus accoring to claim 88, further comprising a computer for supplying image signal to said image display apparatus.